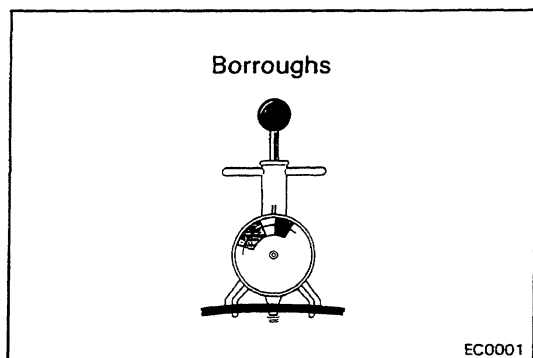




On-Vehicle Inspection

CHECK DRIVE BELT TENSION

Using a belt tension gauge, check the drive belt tension.

Belt tension gauge:

Nippondenso BTG-20 (95506-00020) or

Borroughs No.BT-33-73F

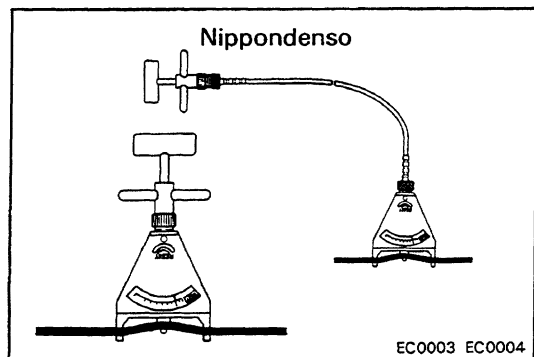
Drive belt tension:

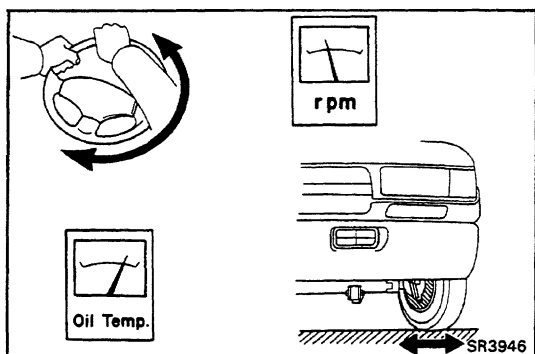
New belt 125 ± 25 lb

Used belt 80 ± 20 lb

HINT:

- "New belt" refers to a belt which has been less than 5 minutes on a running engine.
- "Used belt" refers to a belt which has been used on a running engine for 5 minutes or more.





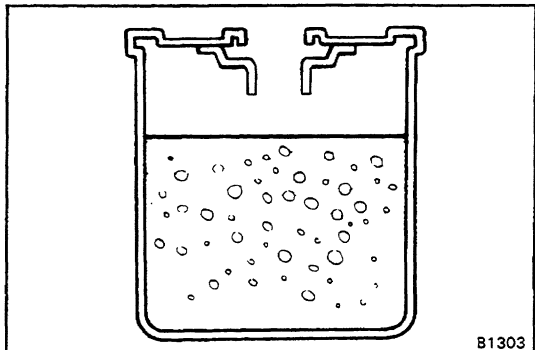
FLUID LEVEL CHECK

1. KEEP VEHICLE LEVEL

2. BOOST FLUID TEMPERATURE

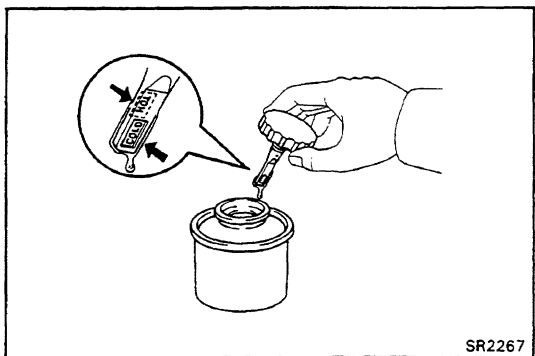
With the engine idling at 1,000 rpm or less, turn the steering wheel from lock to lock several times to boost fluid temperature.

Fluid temperature: 80°C (176°F)



3. CHECK FOR FOAMING OR EMULSIFICATION

HINT: Foaming and emulsification indicate either the existence of air in the system or that the fluid level is too low.

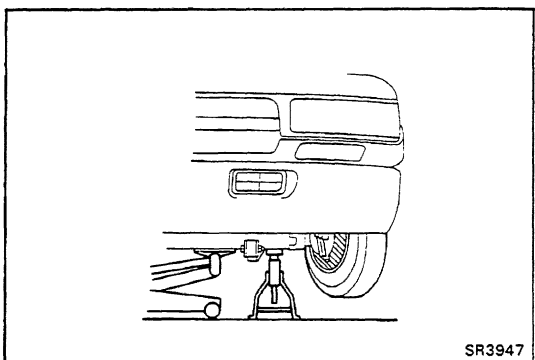


4. CHECK FLUID LEVEL IN RESERVOIR

Check the fluid level and add fluid if necessary.

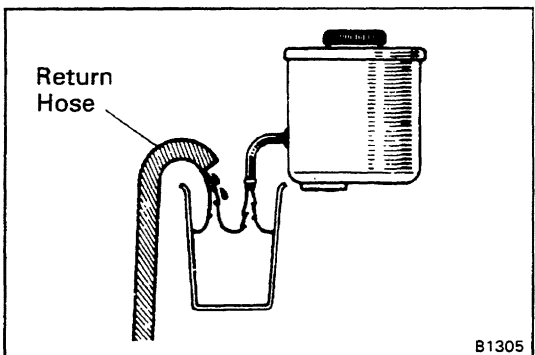
Fluid: ATF DEXRON © II

HINT: Check that the fluid level is within the HOT LEVEL of the dipstick. If the fluid is cold, check that it is within the COLD LEVEL of the dipstick.

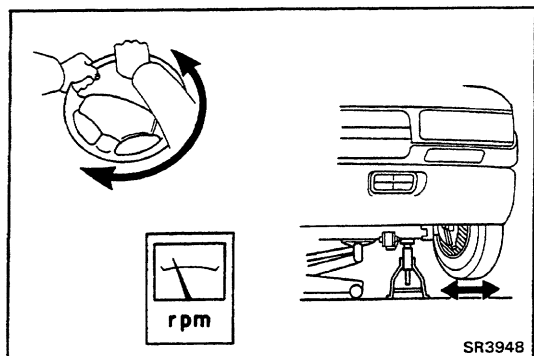


REPLACEMENT OF POWER STEERING FLUID

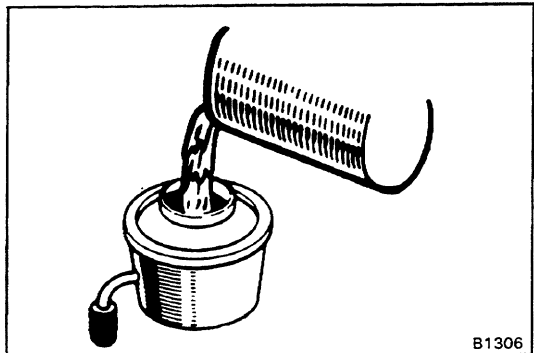
1. JACK UP FRONT OF VEHICLE AND SUPPORT IT WITH STANDS



2. REMOVE FLUID RETURN HOSE FROM RESERVOIR TANK AND DRAIN FLUID INTO CONTAINER

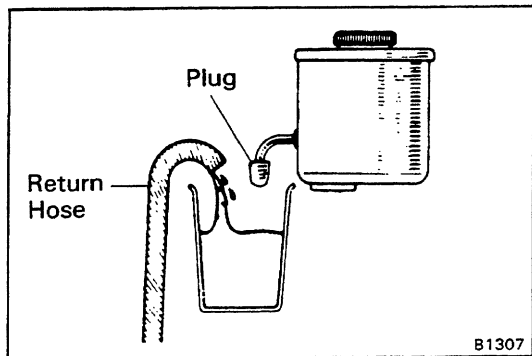


3. TURN STEERING WHEEL FROM LOCK TO LOCK WHILE DRAINING FLUID



4. FILL RESERVOIR TANK WITH FRESH FLUID

Fluid : ATF DEXRON © II



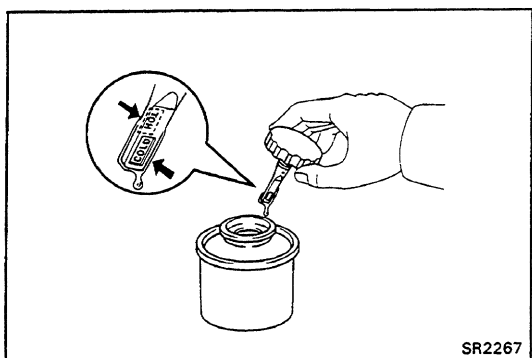
5. START ENGINE AND RUN IT AT 1,000 RPM

After 1 or 2 seconds, fluid will begin to discharge from the return hose. Stop the engine immediately at this time.

NOTICE: Take care that some fluid remains left in the reservoir tank.

6. REPEAT STEPS 4 AND 5 FOUR OR FIVE TIMES UNTIL THERE IS NO MORE AIR IN FLUID

7. CONNECT RETURN HOSE TO RESERVOIR TANK



8. BLEED POWER STEERING SYSTEM

BLEEDING OF POWER STEERING SYSTEM

1. CHECK FLUID LEVEL IN RESERVOIR TANK

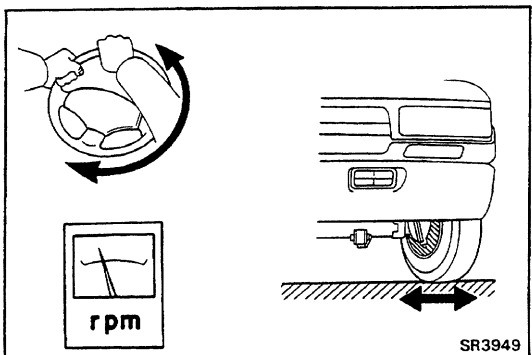
Check the fluid level and add fluid if necessary.

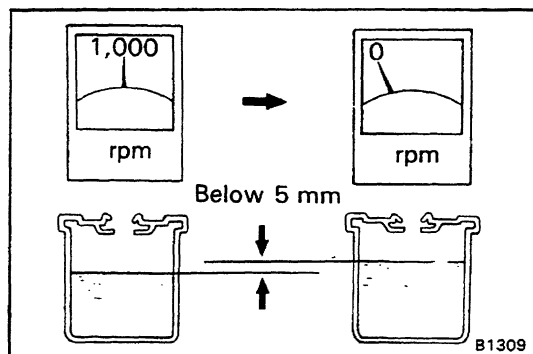
Fluid: ATF DEXRON © II

HINT: Check that the fluid level is within the HOT LEVEL of the dipstick. If the fluid is cold, check that it is within the COLD LEVEL of the dipstick.

2. START ENGINE AND TURN STEERING WHEEL FROM LOCK TO LOCK THREE OR FOUR TIMES

With the engine speed below 1,000 rpm, turn the steering wheel to left or right full lock and keep it there for 2 –3 seconds, then turn the wheel to the reverse full lock and keep it there for 2 – 3 seconds.





B1309

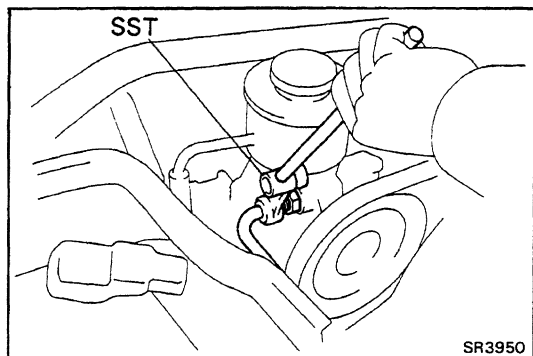
3. CHECK THAT FLUID IN RESERVOIR IS NOT FOAMY OR CLOUDY AND DOES NOT RISE OVER MAXIMUM WHEN ENGINE IS STOPPED

Measure the fluid level with the engine running. Stop the engine and measure the fluid level.

Maximum rise: 5 mm (0.20 in.)

If a problem is found, repeat steps 4 and 5 on page [SR-21](#).

Repair the PS if the problem persists.

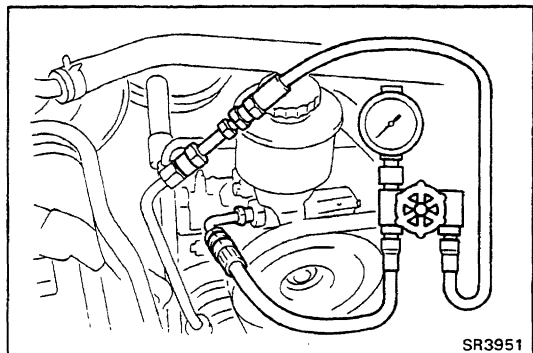


SR3950

OIL PRESSURE CHECK

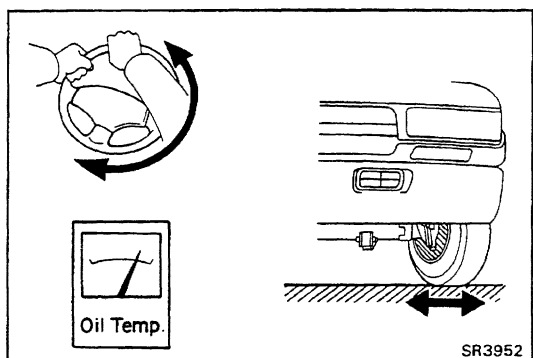
1. CONNECT PRESSURE GAUGE

(a) Using SST, disconnect the pressure line joint.
SST 09631-22020



SR3951

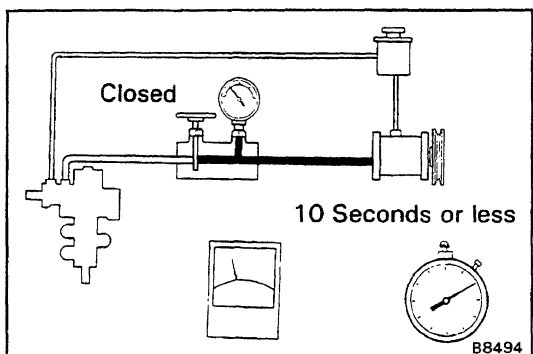
- (b) Connect the gauge side of the pressure gauge to the PS pump side and the valve side to the pressure line side.
- (c) Bleed the system. Start the engine and turn the steering wheel from lock to lock two or three times.
- (d) Check that the fluid level is correct.



SR3952

2. CHECK THAT FLUID TEMPERATURE IS AT LEAST 80°C (176°F)

3. START ENGINE AND RUN IT AT IDLE



B8494

4. CHECK FLUID PRESSURE READING WITH VALVE CLOSED

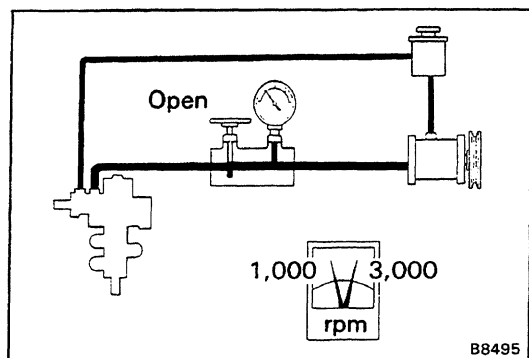
Close the pressure gauge valve and observe the reading on the gauge.

Minimum pressure:

80 kg/cm² (1,138 psi, 7,845 kPa)

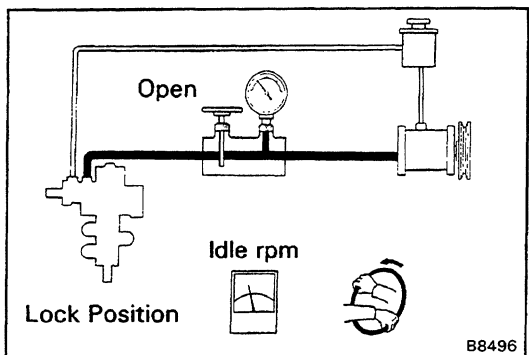
NOTICE:

- Do not keep the valve closed for more than 10 seconds.
- Do not let the fluid temperature become too high. If pressure is low, repair or replace the PS pump.

**5. OPEN VALVE FULLY****6. CHECK AND RECORD PRESSURE READING AT 1,000 RPM****7. CHECK AND RECORD PRESSURE READING AT 3,000 RPM**

Check that there is 5 kg/cm² (71 psi, 490 kPa) or less difference in pressure between the 1,000 rpm and 3,000 rpm checks.

If the difference is excessive, repair or replace the flow control valve of the PS pump.

**8. CHECK PRESSURE READING WITH STEERING WHEEL TURNED TO FULL LOCK**

Be sure the pressure gauge valve is fully opened and the engine idling.

Minimum pressure:

80 kg/cm² (1,138 psi, 7,845 kPa)

NOTICE:

- Do not maintain lock position for more than 10 seconds.
- Do not let the fluid temperature become too high.

If pressure is low, the gear housing has an internal leak and must be repaired or replaced.

9. MEASURE STEERING EFFORT

- Center the steering wheel and run the engine at idle.
- Using a spring scale, measure the steering effort in both directions.

Maximum steering effort: 4 kg (8.8 lb, 39 N)

If steering effort is excessive, repair the power steering unit.

HINT: Be sure to consider tire type, pressure and contact surface before making your diagnosis.

